

CONTENTS

Volume 88, Issue 3, February 2008

Perspective

- Plant neurobiology and green plant intelligence: science, metaphors and nonsense
P C Struik, X Yin and H Meinke (The Netherlands) 363

Research Articles

- The weed community affects yield and quality of soybean (*Glycine max* (L.) Merr.)
DJ Gibson, K Millar, M DeLong (USA), J Connolly, L Kirwan (Ireland), AJ Wood and BG Young (USA) 371
- Toxicological evaluation of transgenic rice flour with an *Escherichia coli* phytase gene *appA* by sub-chronic feeding study in Wistar rats
C-C Tsai, C-H Lai, C-S Yang, C-K Lin and H-Y Tsen (Republic of China) 382
- Pectin methylesterase, polyphenol oxidase and physicochemical properties of typical long-storage cherry tomatoes cultivated under water stress regime
RN Barbagallo, M Chisari, F Branca and G Spagna (Italy) 389
- Colour and viscosity of milk and soybean vanilla beverages. Instrumental and sensory measurements
B Villegas, I Carbonell and E Costell (Spain) 397
- Amount of characteristic compounds in 15 cultivars of onion (*Allium cepa* L.) in controlled field trials
IM Vågen and R Slimestad (Norway) 404
- Characterisation of Taiwanese propolis collected from different locations and seasons
Y-W Chen, S-W Wu, K-K Ho, S-B Lin, C-Y Huang and C-N Chen (Taiwan) 412
- Changes in skin cell wall composition during the maturation of four premium wine grape varieties
A Ortega-Regules, JM Ros-García, AB Bautista-Ortín, JM López-Roca and E Gómez-Plaza (Spain) 420
- Effects of *Graptopetalum paraguayense* extract on *tert*-butylhydroperoxide-induced oxidative stress
S-T Chou, Y-C Chung, K-Y Teng and J-Y Yeh (Republic of China) 429
- Effects of particle size reduction of insoluble fibres by micron technology on various caecal and faecal indices
Y-L Huang, F Sheu, M-H Lee and C-F Chau (Taiwan) 435
- Effect of O₂ scavenger on the shelf-life of catfish (*Pangasius sutchi*) steaks during chilled storage
CO Mohan, CN Ravishankar and TK Srinivasagopal (India) 442
- Influence of a severe reduction of the feeding level during the period immediately prior to free-range fattening on performance and fat quality in Iberian pigs
A Daza, CJ Lopez-Bote, A Olivares, D Menoyo and J Ruiz (Spain) 449
- Effect of soybean proteins on gluten depolymerization during mixing and resting
GT Pérez, PD Ribotta, ME Steffolani and AE León (Argentina) 455
- Keeping quality of tomato fruit by high electrostatic field pretreatment during storage
Y Wang, B Wang and L Li (China) 464
- Chromatographic evaluation of chlorophyll derivatives in pasta-based food products: effects of pasteurization treatments and correlation with sensory profiles
M Suman, R De Maria and D Catellani (Italy) 471
- Effect of carbohydrate supplementation provided through drinking water during feed withdrawal on meat and liver colours in broilers
N Karacay, N Ocak, M Sarica and G Erener (Turkey) 479
- Evolution of aroma compounds of murtilla fruits (*Ugni molinae* Turcz) during storage
E Scheuermann, I Seguel, A Montenegro, RO Bustos, E Hormazábal and A Quiroz (Chile) . 485
- Preparative separation and purification of phenolic compounds from *Canarium album* L. by macroporous resins
Z He and W Xia (China) 493

Contents continued . . .

Broccoli (<i>Brassica oleracea</i> var. botrytis L.) improves the survival and up-regulates endogenous antioxidant enzymes in <i>Drosophila melanogaster</i> challenged with reactive oxygen species YM Li, HYE Chan, Y Huang and ZY Chen (China)	499
Evaluation of enzymatic treatment of peach juice using response surface methodology MM Santin, H Treichel, E Valduga, LMC Cabral and M Di Luccio (Brazil)	507
Active Bowman–Birk inhibitors survive gastrointestinal digestion at the terminal ileum of pigs fed chickpea-based diets A Clemente, E Jimenez, MC Marin-Manzano and LA Rubio (Spain)	513
Growth performance of rats fed raw and extruded African breadfruit-based complementary diets: A response surface analysis TU Nwabueze (Nigeria)	522
Production of α -amylase by <i>Aspergillus oryzae</i> As 3951 in solid state fermentation using spent brewing grains as substrate H Xu, L Sun, D Zhao, B Zhang, Y Shi and Y Wu (China)	529
Solid substrate bioassay to evaluate impact of <i>Trichoderma</i> on trichothecene mycotoxin production by <i>Fusarium</i> species M Buško, J Chełkowski, D Popiel and J Perkowski (Poland)	536
Suppression of immune responses to β -lactoglobulin in mice by the oral administration of peptides representing dominant T cell epitopes K Mizumachi, NM Tsuji and J-I Kurisaki (Japan)	542

Copyright © 2008 Society of Chemical Industry. Subscribing organisations are encouraged to copy and distribute this table of contents for internal, non-commercial purposes.

FREE access to the full text content of issue I is available online at
<http://www3.interscience.wiley.com/cgi-bin/jtoc/I294>



www.soci.org

where science meets business

To encourage and support the interchange of information, knowledge and opinion between individuals, businesses and other organisations interested in any aspect of the development and application of chemistry and related sciences throughout the world.

SCI members debate the issues of the day, share information and enjoy a distinctive package of member benefits:

- A range of specialist peer-reviewed journals
- 50% discount on books published by John Wiley & Sons, Ltd
- The authoritative *Chemistry & Industry* magazine, with 24 issues a year and its own website www.chemind.org
- A monthly newsletter
- Events, specialist meetings and conferences opening doors to knowledge and networking
- An online e-Society at www.soci.org
- Internationally recognised Honours, Student Scholarships and Travel Grants
- A diverse range of special interest Groups and geographically based Sections
- *Open Forum* debates
- International headquarters and meeting house in London's Belgrave Square

For further information on SCI and the benefits of joining its worldwide membership, contact:
SCI Member Services, 14/15 Belgrave Square, London SW1X 8PS, UK
E: members@soci.org, F: +44 (0) 20 7823 1698